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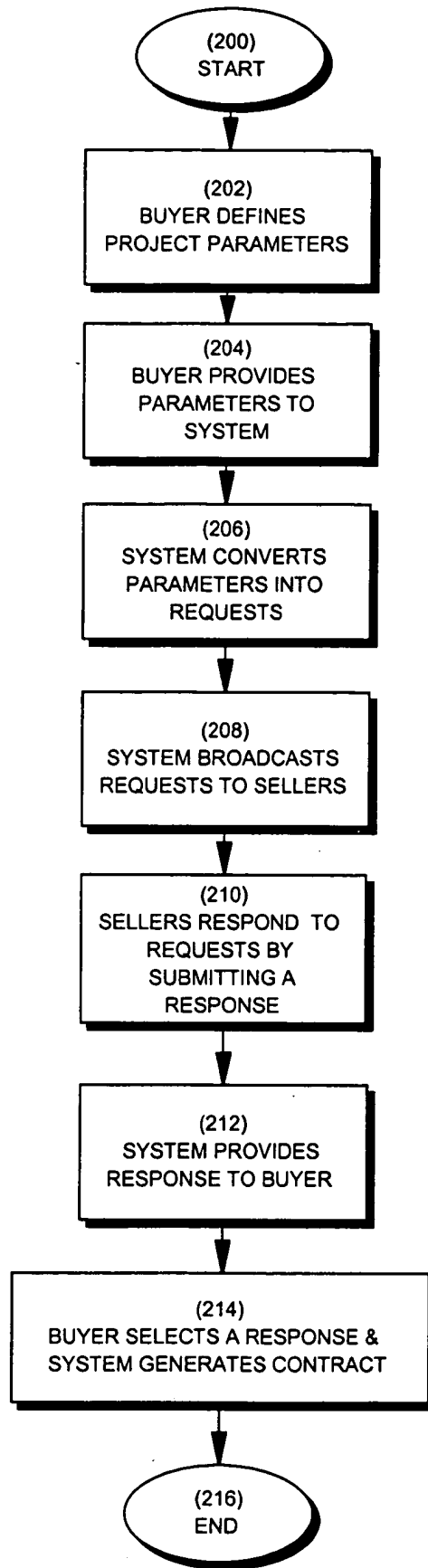
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```

graph TD
    100([100] START) --> 102[102] IDENTIFY PROJECT PARAMETERS]
    102 --> 104[104] MATCH BUYERS WITH SELLERS OF GOODS/ SERVICES NEEDED TO ACCOMPLISH PROJECT]
    104 --> 106[106] ISSUE WORK ORDER DESIGNATING GOODS/ SERVICES NEEDED TO FULFILL CERTAIN ASPECT OF PROJECT]
    106 --> 108[108] MONITOR WORK ORDER STATUS]
    108 --> 110[110] SUBMIT COMPLETED WORK ORDERS FOR PAYMENT/ACCOUNTING]
    110 --> 112[112] PERFORM EXPERT ANALYSIS OF PROJECT CHARACTERISTICS; DEVELOP REFINED PROJECT MODELS AND SYSTEMS BASED UPON FIELD UPDATES OF PROJECT STATUS]
    112 --> 114([114] END]

```

**FIGURE 1**

[illegible]

**FIGURE 2**



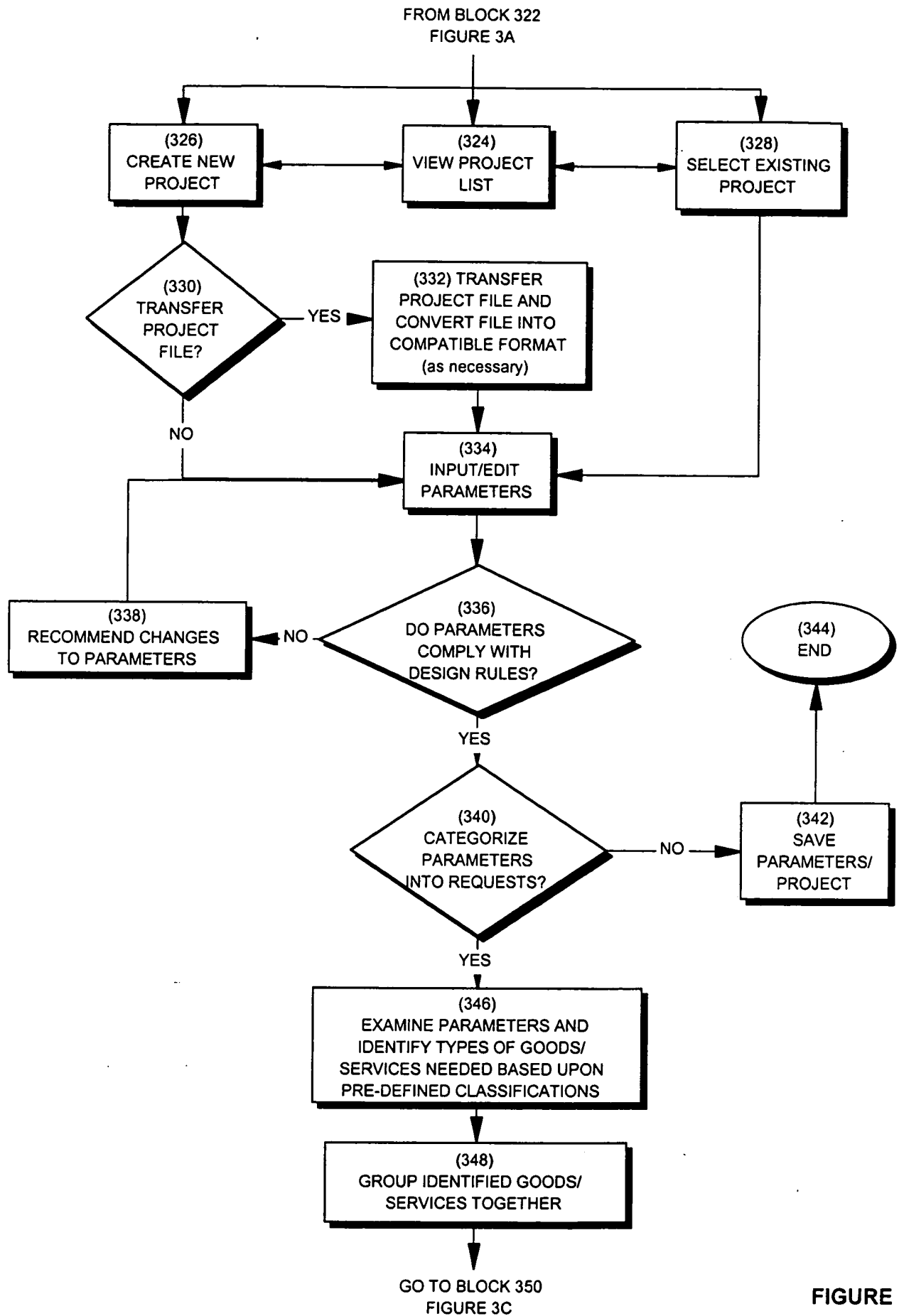


FIGURE 3B

FROM FIGURE 348  
FIGURE 3B

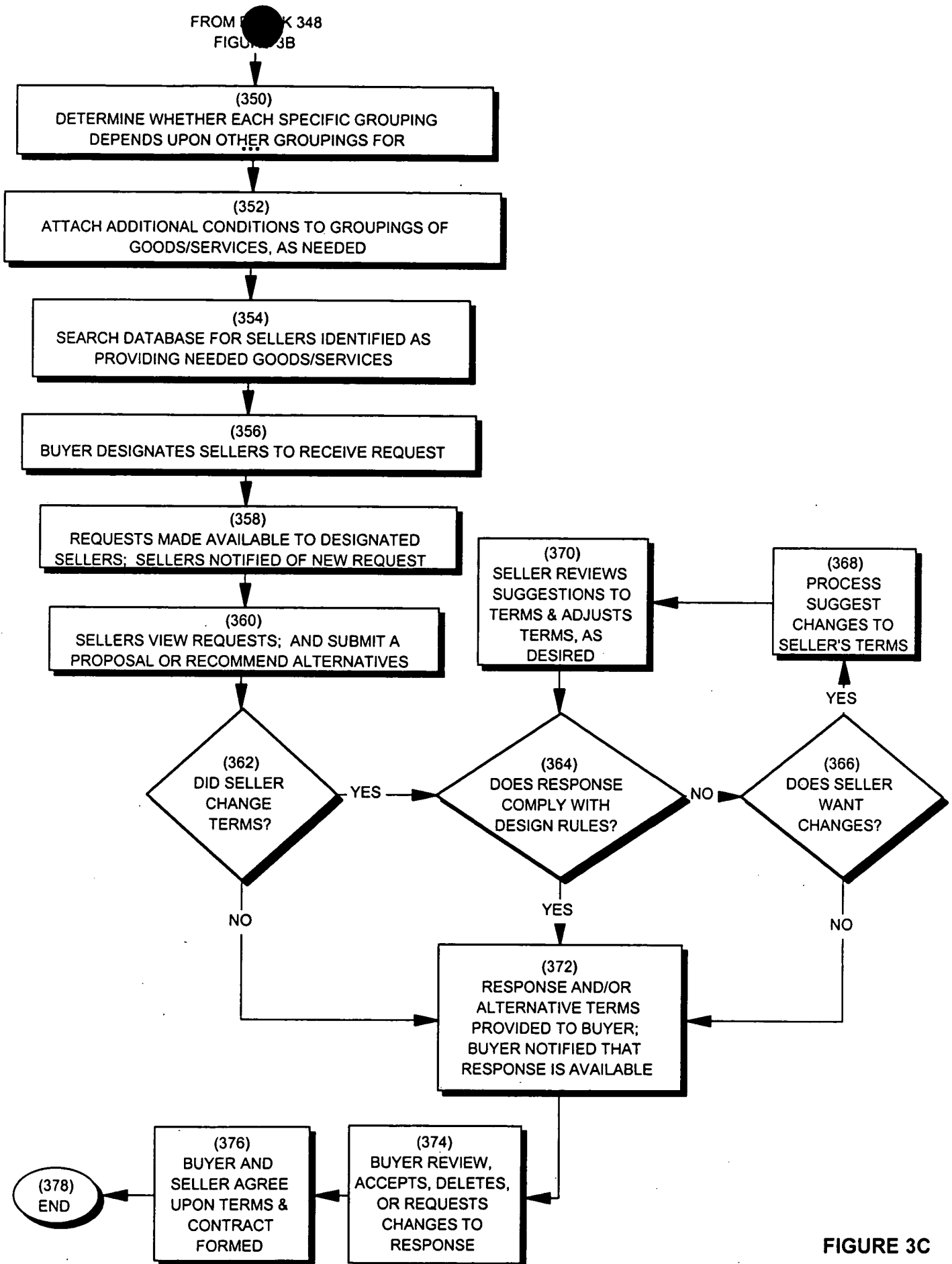
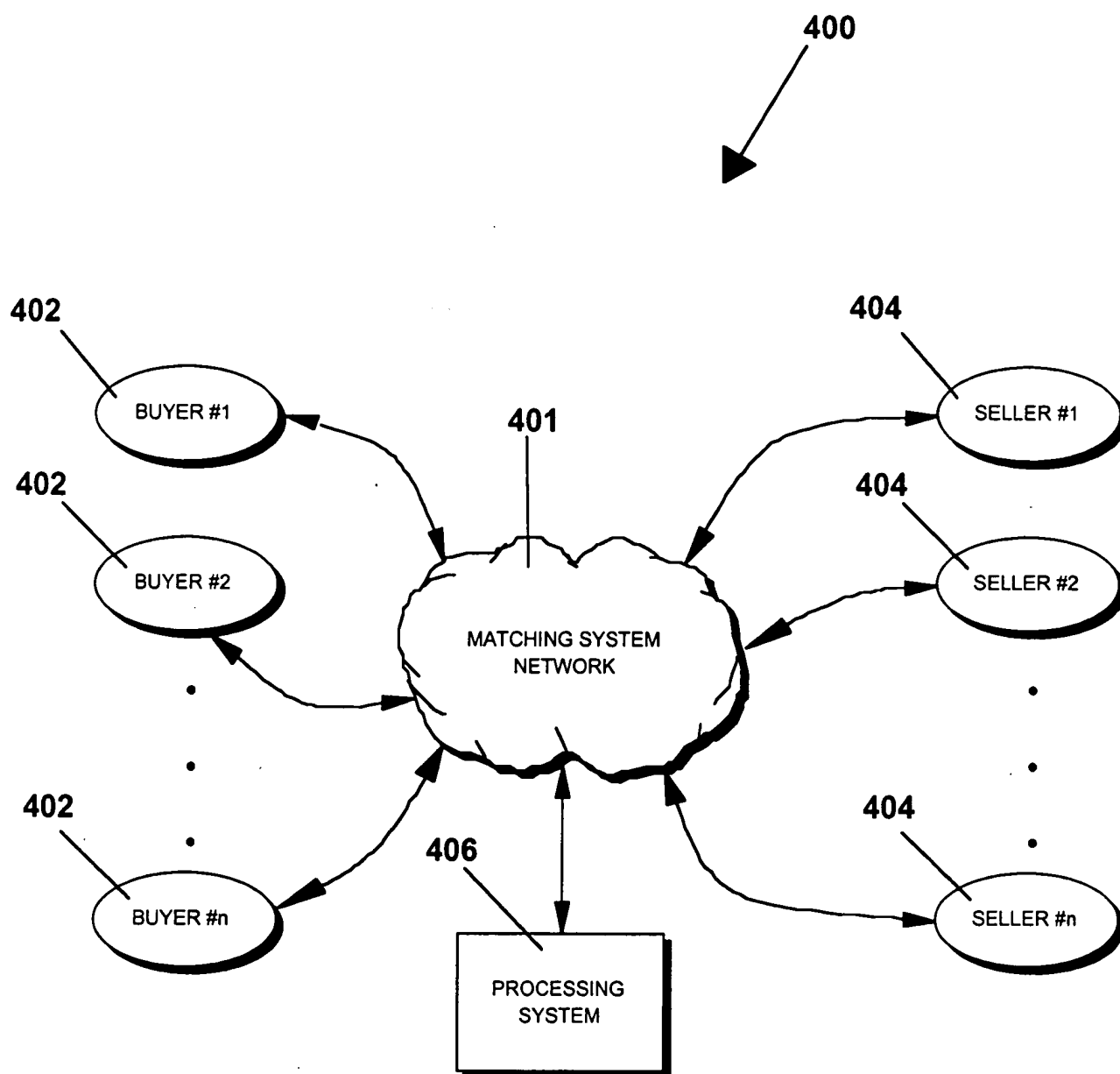


FIGURE 3C



**FIGURE 4**

```

graph TD
    500([500] START) --> 502[502] BUYER SELECTS TEMPLATE OR FUNCTION
    502 --> 504[504] DETERMINE BUYER'S PROFILE
    504 --> 506[506] SELLER PROFILES SCREENED & SELLER WITH "BEST FIT" SELECTED
    506 --> 508[508] PROFILE LINKS DISPLAYED ON BUYER'S CURRENT SCREEN
    508 --> 510([510] END)

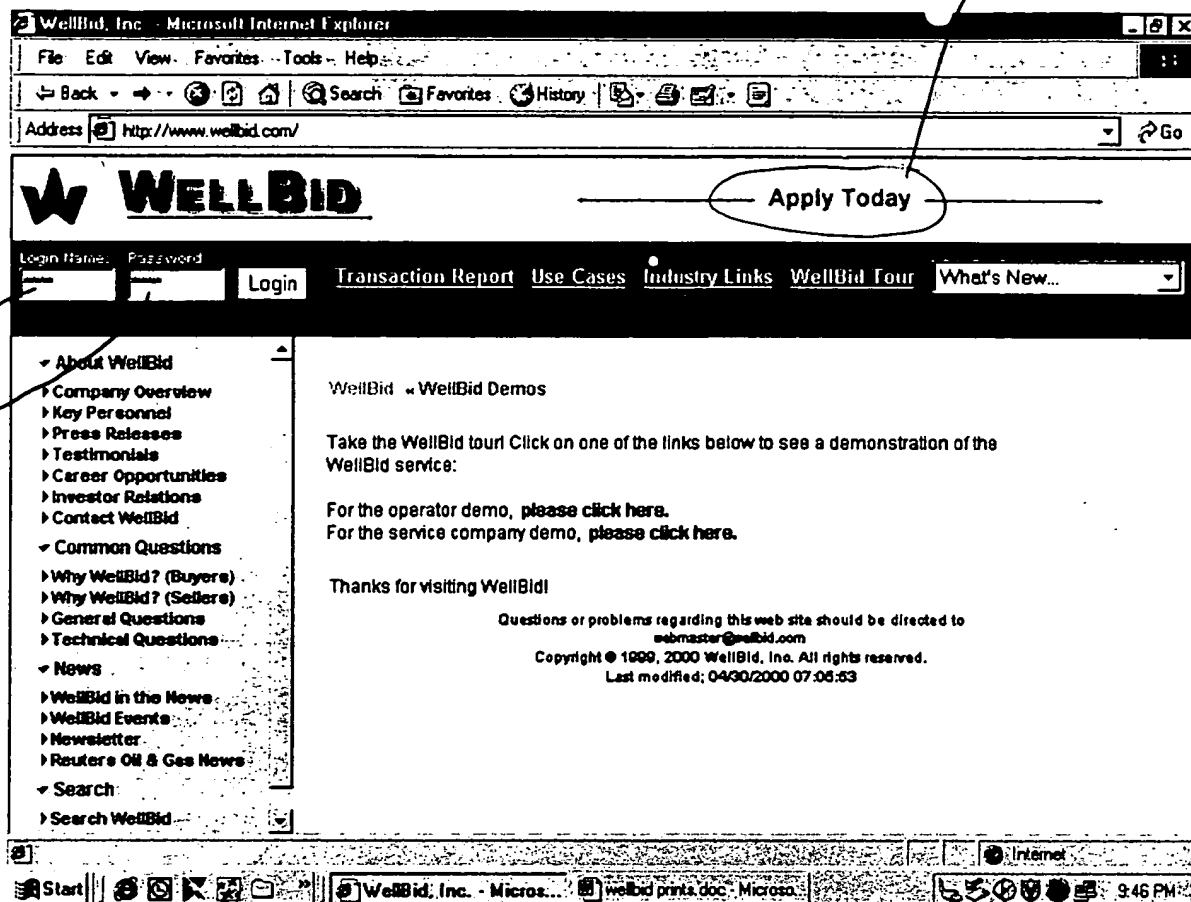
```

**FIGURE 5**



The diagram illustrates a network architecture for a profile link processing system. At the center is the **INTERNET**, represented by a cloud shape. Four main systems are connected to the Internet via bidirectional arrows, each labeled with a reference numeral: **BUYER'S SYSTEM** (610), **PROFILE LINK PROCESSING SYSTEM** (602), **SELLER'S SYSTEM** (608), and **INTERNET SERVICE PROVIDER CONNECTED TO PROCESS SERVER** (612). The **PROFILE LINK PROCESSING SYSTEM** (602) is further connected to a **PROFILE DATABASE(S)** (604) via a bidirectional arrow. A curved line connects the four main systems in a circular fashion, with segments labeled 618, 620, 614, and 616. Additionally, there are bidirectional arrows between the **INTERNET** and each of the four main systems, with labels 622, 622, 606, and 606 respectively.

**FIGURE 6**



706

902

704

FIGURE 7

**WELLOGIX**

**User Profile**

Please update your personal profile information below and click the Save button.

**802**

**804**

**Profile**

User Profile

Projects

**Find a Consultant**

**Give us Feedback**

**Logout**

**Prefix:** Mr.

**First:** John

**Middle Initial:**

**Last:** Smith

**Login:** tech

**Password:** tech

**Title:** Global Drilling Engineer

**Email Address:**

**Region & Basins:** Canada - Alberta  
Canada - British Columbia  
Canada - Eastern Canadian Outlets

**SPE Number:**

**Last Degree:** MBA 2001

**Year Graduated:** 1980

**Specialty:** Drilling Mechanics

**Notification Preferences:** Email

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FIGURE 8



### **Bid Request Summary**

### All Projects List

## Profile

### User Profile

## Projects

Go

## Find a Consultant

## Give us Feedback

Logout

Crested	Project Name	Well Name	Host Section Name	Request/Detail Type
28-APR-00	South Pass 68			Rig Specification-Drill Ship
28-APR-00	South Pass 68			Rig Specification-Inland Barge
01-SEP-00	South Pass 68			Casing
22-JUN-00	DWT 700			Rig Specification-Drill Ship
22-JUN-00	DWT 700			Rig Specification-Inland Barge
22-JUN-00	DWT 700			Rig Specification-Jack-Up
22-JUN-00	DWT 700			Rig Specification-Platform
22-JUN-00	DWT 700			Rig Specification-Semi-Submersible
22-JUN-00	DWT 700			Rig Specification-Submersible
16-AUG-00	DWT 700	ST 384 #1		Wellhead
21-AUG-00	Yr2000 Tensteep Prol	ST 384 #1-1		Wellhead
21-AUG-00	test	ST 384 - SS #2-1		Formation Evaluation (OHCHO) And Wireline Services
26-APR-00	Yr2000 Tensteep Prol	DSS-15		Rental Equipment
18-MAY-00	South Pass 68	A-33		Wellhead
18-MAY-00	South Pass 68	A-33		Stimulation
18-MAY-00	South Pass 68	A-33		Rig

1944. 1945. 1946. 1947. 1948. 1949. 1950. 1951. 1952. 1953. 1954. 1955. 1956. 1957. 1958. 1959. 1960. 1961. 1962. 1963. 1964. 1965. 1966. 1967. 1968. 1969. 1970. 1971. 1972. 1973. 1974. 1975. 1976. 1977. 1978. 1979. 1980. 1981. 1982. 1983. 1984. 1985. 1986. 1987. 1988. 1989. 1990. 1991. 1992. 1993. 1994. 1995. 1996. 1997. 1998. 1999. 2000. 2001. 2002. 2003. 2004. 2005. 2006. 2007. 2008. 2009. 2010. 2011. 2012. 2013. 2014. 2015. 2016. 2017. 2018. 2019. 2020. 2021. 2022. 2023. 2024. 2025. 2026. 2027. 2028. 2029. 2030. 2031. 2032. 2033. 2034. 2035. 2036. 2037. 2038. 2039. 2040. 2041. 2042. 2043. 2044. 2045. 2046. 2047. 2048. 2049. 2050. 2051. 2052. 2053. 2054. 2055. 2056. 2057. 2058. 2059. 2060. 2061. 2062. 2063. 2064. 2065. 2066. 2067. 2068. 2069. 2070. 2071. 2072. 2073. 2074. 2075. 2076. 2077. 2078. 2079. 2080. 2081. 2082. 2083. 2084. 2085. 2086. 2087. 2088. 2089. 2090. 2091. 2092. 2093. 2094. 2095. 2096. 2097. 2098. 2099. 2100. 2101. 2102. 2103. 2104. 2105. 2106. 2107. 2108. 2109. 2110. 2111. 2112. 2113. 2114. 2115. 2116. 2117. 2118. 2119. 2120. 2121. 2122. 2123. 2124. 2125. 2126. 2127. 2128. 2129. 2130. 2131. 2132. 2133. 2134. 2135. 2136. 2137. 2138. 2139. 2140. 2141. 2142. 2143. 2144. 2145. 2146. 2147. 2148. 2149. 2150. 2151. 2152. 2153. 2154. 2155. 2156. 2157. 2158. 2159. 2160. 2161. 2162. 2163. 2164. 2165. 2166. 2167. 2168. 2169. 2170. 2171. 2172. 2173. 2174. 2175. 2176. 2177. 2178. 2179. 2180. 2181. 2182. 2183. 2184. 2185. 2186. 2187. 2188. 2189. 2190. 2191. 2192. 2193. 2194. 2195. 2196. 2197. 2198. 2199. 2200. 2201. 2202. 2203. 2204. 2205. 2206. 2207. 2208. 2209. 2210. 2211. 2212. 2213. 2214. 2215. 2216. 2217. 2218. 2219. 2220. 2221. 2222. 2223. 2224. 2225. 2226. 2227. 2228. 2229. 2230. 2231. 2232. 2233. 2234. 2235. 2236. 2237. 2238. 2239. 2240. 2241. 2242. 2243. 2244. 2245. 2246. 2247. 2248. 2249. 2250. 2251. 2252. 2253. 2254. 2255. 2256. 2257. 2258. 2259. 2260. 2261. 2262. 2263. 2264. 2265. 2266. 2267. 2268. 2269. 2270. 2271. 2272. 2273. 2274. 2275. 2276. 2277. 2278. 2279. 2280. 2281. 2282. 2283. 2284. 2285. 2286. 2287. 2288. 2289. 2290. 2291. 2292. 2293. 2294. 2295. 2296. 2297. 2298. 2299. 2300. 2301. 2302. 2303. 2304. 2305. 2306. 2307. 2308. 2309. 2310. 2311. 2312. 2313. 2314. 2315. 2316. 2317. 2318. 2319. 2320. 2321. 2322. 2323. 2324. 2325. 2326. 2327. 2328. 2329. 2330. 2331. 2332. 2333. 2334. 2335. 2336. 2337. 2338. 2339. 2340. 2341. 2342. 2343. 2344. 2345. 2346. 2347. 2348. 2349. 2350. 2351. 2352. 2353. 2354. 2355. 2356. 2357. 2358. 2359. 2360. 2361. 2362. 2363. 2364. 2365. 2366. 2367. 2368. 2369. 2370. 2371. 2372. 2373. 2374. 2375. 2376. 2377. 2378. 2379. 2380. 2381. 2382. 2383. 2384. 2385. 2386. 2387. 2388. 2389. 2390. 2391. 2392. 2393. 2394. 2395. 2396. 2397. 2398. 2399. 2400. 2401. 2402. 2403. 2404. 2405. 2406. 2407. 2408. 2409. 2410. 2411. 2412. 2413. 2414. 2415. 2416. 2417. 2418. 2419. 2420. 2421. 2422. 2423. 2424. 2425. 2426. 2427. 2428. 2429. 2430. 2431. 2432. 2433. 2434. 2435. 2436. 2437. 2438. 2439. 2440. 2441. 2442. 2443. 2444. 2445. 2446. 2447. 2448. 2449. 2450. 2451. 2452. 2453. 2454. 2455. 2456. 2457. 2458. 2459. 2460. 2461. 2462. 2463. 2464. 2465. 2466. 2467. 2468. 2469. 2470. 2471. 2472. 2473. 2474. 2475. 2476. 2477. 2478. 2479. 2480. 2481. 2482. 2483. 2484. 2485. 2486. 2487. 2488. 2489. 2490. 2491. 2492. 2493. 2494. 2495. 2496. 2497. 2498. 2499. 2500. 2501. 2502. 2503. 2504. 2505. 2506. 2507. 2508. 2509. 2510. 2511. 2512. 2513. 2514. 2515. 2516. 2517. 2518. 2519. 2520. 2521. 2522. 2523. 2524. 2525. 2526. 2527. 2528. 2529. 2530. 2531. 2532. 2533. 2534. 2535. 2536. 2537. 2538. 2539. 2540. 2541. 2542. 2543. 2544. 2545. 2546. 2547. 2548. 2549. 2550. 2551. 2552. 2553. 2554. 2555. 2556. 2557. 2558. 2559. 2560. 2561. 2562. 2563. 2564. 2565. 2566. 2567. 2568. 2569. 2570. 2571. 2572. 2573. 2574. 2575. 2576. 2577. 2578. 2579. 2580. 2581. 2582. 2583. 2584. 2585. 2586. 2587. 2588. 2589. 2590. 2591. 2592. 2593. 2594. 2595. 2596. 2597. 2598. 2599. 2600. 2601. 2602. 2603. 2604. 2605. 2606. 2607. 2608. 2609. 2610. 2611. 2612. 2613. 2614. 2615. 2616. 2617. 2618. 2619. 2620. 2621. 2622. 2623. 2624. 2625. 26

FIGURE 10A

1004



[Bid Request Summary](#)

[All Projects List](#)

Profile

Projects

[Project Request](#)

Wells

[Find a Consultant](#)

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## All Projects List > South Pass 68 - Offshore Project Details

|                                    |   |
|------------------------------------|---|
| Project Name                       | South Pass 68   |
| Project Description                | Development Drilling Program for Year 2000  |
| Country                            | United States   |
| Region-Basin                       | GOM - Gulf Coast Salt Dome  |
| State/Province                     | Louisiana   |
| Acresage Ownership                 | OCSO  |
| Estimated Start Date               | 15-SEP-2000   |
| Estimated Project Duration         | 180 days  |
| Units Of Measure                   | English   |
| Location Of Shore Base             |   |
| Country                            | United States   |
| State/Province                     | Louisiana   |
| City Or Town                       | Venice  |
| Distance To Project Location       | 20 miles  |
| Avg Water Depth @ Project Location | 105 ft  |
| Platform For Operations            | Platform  |
| Scope Of Project                   | Drill 3 directional wells to penetrate multiple horizons around the XX Salt Dome. |

|  |                                     |                                    |  |
|--|-------------------------------------|------------------------------------|--|
| <a href="#">Edit/Update Project Detail</a> | <a href="#">Add Well to Project</a> | <a href="#">View Project Users</a> | <a href="#">View Wells For Project</a> |
|--|-------------------------------------|------------------------------------|--|

1006

1008

1010

1012

FIGURE 10B



### Bid Request Summary

### All Projects List

## Profile

Go

## Projects

South Pass 68

Go

**Project Request**

Wells

Go

### Find a Consultant

**Give us Feedback**

**Layout**

All Projects List > South Pass 68 > **Project Users..**

| Project Users     |  |                |              |
|-------------------|--|----------------|--------------|
| Name              | Email  | Phone          | Project Role |
| John Smith (tech) | <a href="mailto:info@wesbid.com">info@wesbid.com</a> | (303) 300-3520 | OWNER        |

### Add A User To This Project

| User               | Role |
|--------------------|------|
| BP Amoco (bpamoco) | USER |
| BP Amoco (bpamoco) |      |
| Mark (testing)     |      |
| Lorne (bartley)    |      |
| Walter (wbills)    |      |
| Dana (bdane)       |      |
| Eliot (cooper)     |      |
| Scott (scope)      |      |
| Jim (dane)         |      |
| Jack (jdoak)       |      |
| John (bdemo)       |      |
| alex (sine)        |      |

FIGURE 10C

**WELLOGIX**

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[All Projects List](#)  
 Profile  
 User Profile   
 Projects  
 South Pass 68   
 Project Request  
 WebSite  
  
[Find a Consultant](#)  
[Give us Feedback](#)  
[Logout](#)

### Request Manager

**Cover Info:**

|                  |                              |
|------------------|------------------------------|
| Status           | NOT SUBMITTED                |
| Bid Request      | Rig Specification-Drill Ship |
| Request for      |                              |
| Due Date         |                              |
| Comments         |                              |
| File Attachments | No File Attached             |

[Edit Cover Info](#)

[Back to Generated Bid Requests:](#)

**List of Details:**

| Detail No | Rig Specification-Drill Ship | New |
|-----------|------------------------------|-----|
| 17        | Draft                        | ... |

**Vendor Status**

The Vendor List is empty because this Bid Request has not been submitted yet.

[View Pkg](#) [Submit to Preferred Vendor](#) [Select Vendor and Submit](#) [Close Bidding](#)

FIGURE 10D





Bid Request Summary

All Projects List

Profile

Projects

Yr2000 Tensleep Proj

Project Request

Wells

DSS-15

Details

Hole Sections

Go

Find a Consultant

Give us Feedback

Logout

Select A Featured Vendor Or Suggest A Vendor

| Prefer                   | Company Name                 | Sales Person   |
|--------------------------|------------------------------|----------------|
| <input type="checkbox"/> | Black Warrior Wireline Corp. | Mark Roberts   |
| <input type="checkbox"/> | Black Warrior Wireline Corp. | Bob Minyard    |
| <input type="checkbox"/> | Cardinal Surveys Company     | Charlie Newsom |

### CH Logging (Including Formation/Production Logging) & WL Services

| Requirement Needs        |     |        |
|--------------------------|-----|--------|
| Cement Evaluation        | Yes | E-line |
| Production Logging       | No  |        |
| Formation Evaluation     | No  |        |
| Casing/Tubing Inspection | No  |        |
| Tie In Runs              | No  |        |
| Set Packers/BP Plugs     | No  |        |
| Cleanout Fill            | No  |        |

| Logging Tools/Services Required | From MD, ft | To MD, ft   |
|---------------------------------|-------------|-------------|
| Casing Collar Locator (CCL)     | Yes         | 13294 12100 |
| Gamma Ray (GR)                  | Yes         | 13294 12100 |
| Temperature                     | Yes         | 13294 12100 |
| Cement Bond                     | Yes         | 13294 12100 |

|                                 |        |
|---------------------------------|--------|
| Depth Of Max Hole Angle MD, ft. | 3500   |
| Logging Thru Casing Or Tubing?  | Casing |

| Casing/Tubing | OD Size, in | Weight, lbm/ft | ID Size (Drift), in | Top, MD-ft | Bottom, MD-ft | Minimum ID in String, in | Depth of Min ID, ft |
|---------------|-------------|----------------|---------------------|------------|---------------|--------------------------|---------------------|
|               | 4.5         | 12.6           | 3.875               | 12033      | 13294         | 3.875                    |                     |
|               | 7           | 29             | 6.059               | 0          | 12183         | 6.059                    |                     |

Add More Lines

|   |
|---|
| Comments  |
| Need to evaluate a cement job across a 4 1/2" liner. Max angle of well and tangent section of well is 43 degrees. |

Save Final Save Draft Cancel Delete Reset

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FIGURE 10E



Bid Request Summary

All Projects List

Profile

Projects

Yr2000 Tensleep Proj

Go

Project Request

Wells

DSS-15

Details

Hole Sections

Go

Find a Consultant

Give us Feedback

Logout

# (Request #3754) CH Logging & WL Services

|               |              |
|---------------|--------------|
| Request Type: | AFE Estimate |
| Reply By:     | 01-JUL-00    |

|                  |                            |                 |                    |
|------------------|----------------------------|-----------------|--------------------|
| Requested By:    | John Smith                 | Office Phone:   |                    |
| Title:           | Global Drilling Engineer   | Fax:            |                    |
| Company Name:    | Buyer Services             | E-Mail:         |                    |
| Mailing Address: | ADDRESS<br>Denver CO 80222 | Region & Basin: | Rockies - Big Horn |

|                 |                      |
|-----------------|----------------------|
| Project Name:   | Yr2000 Tensleep Proj |
| Region & Basin: | Rockies - Big Horn   |
| Country:        | USA                  |

|                   |                       |
|-------------------|-----------------------|
| Well Name:        | DSS-15                |
| Well Description: | New Tensleep Producer |

|                                |        |
|--------------------------------|--------|
| TD MD, ft                      | 13294  |
| TD TVD, ft                     | 10729  |
| BHST deg, F                    | 250    |
| Wellbore Fluid While Logging   | Brine  |
| Average Hole Angle, deg        | 43     |
| Max Hole Angle, deg            | 43     |
| Depth Of Max Hole Angle MD, ft | 3500   |
| Logging Thru Casing Or Tubing? | CASING |

| Casing/Tubing |                 |                     |            |               |                          |                     |                       |
|---------------|-----------------|---------------------|------------|---------------|--------------------------|---------------------|-----------------------|
| OD Size, in   | Weight, lb_m/ft | ID Size (Drift), in | Top MD, ft | Bottom MD, ft | Minimum ID in String, in | Depth Of Min ID, ft | Tubing Tail Depth, ft |
| 4.5           | 12.6            | 3.875               | 12033      | 13294         | 3.875                    |                     |                       |
| 7             | 29              | 6.059               | 0          | 12183         | 6.059                    |                     |                       |

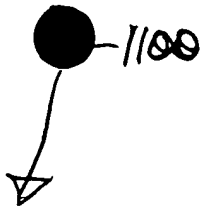
|   |
|---|
| Comments  |
| Need to evaluate a cement job across a 4 1/2" liner. Max angle of well and tangent section of well is 43 degrees. |

|                       |                   |
|-----------------------|-------------------|
| Category Attachments: | File Attachments: |
| Casing Summary        | No File Attached  |
| Tubing Summary        |                   |

Back

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FIGURE 10F



### Bid Request Summary

## Profile

Go

South Pass 68

Go

## Wells

Go

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FIGURE 11



[Bid Request Summary](#)

[All Projects List](#)

Profile

Projects

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## Replies to Bid Requests

| Project Name                         | Well Name | Node Section Name | Bid Request/Detail Type            | Vendor                   | Interested | Feedback | Response Date |
|--------------------------------------|-----------|-------------------|------------------------------------|--------------------------|------------|----------|---------------|
| <a href="#">Yr2000 Tensleep Proj</a> |           |                   | Casing                             | <a href="#">John Doe</a> | Yes        | Yes      | 29-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Tubing                             | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | CH Logging & VM Services           | <a href="#">John Doe</a> | Yes        | Yes      | 29-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Completion Packers                 | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Isolation Tools-Bridge Plugs       | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Isolation Tools-Retrivable Packers | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Location                           | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Pumping Unit                       | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |
| <a href="#">Yr2000 Tensleep Proj</a> | DSS-15    |                   | Rel/Mouse Hole                     | <a href="#">John Doe</a> | Yes        | Yes      | 26-MAY-2000   |

1200  
1202  
1204  
1206  
1207

Figure 12A



Figure 12B

**THE UNIVERSITY OF CHICAGO**



### All Projects List

Go

Yr2000 Tensleep Proj ▾

Go

**Wells**

Go

**Give us Feedback**

**Logout**

| Project Name         | Well Name | Hole Section Name | Bid Request/Detail Type | Vendor   | Response Date |
|----------------------|-----------|-------------------|-------------------------|----------|---------------|
| Yr2000 Tensleep Proj |           |                   | Casing                  | John Doe | 29-MAY-2000   |

Where do you want this to be delivered?

**Back.**

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✓ 12/2

|  | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1976 | 1977 | 1978 | 1979 | 1980 | 1981 | 1982 | 1983 | 1984 | 1985 | 1986 | 1987 | 1988 | 1989 | 1990 | 1991 | 1992 | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | 2032 | 2033 | 2034 | 2035 | 2036 | 2037 | 2038 | 2039 | 2040 | 2041 | 2042 | 2043 | 2044 | 2045 | 2046 | 2047 | 2048 | 2049 | 2050 | 2051 | 2052 | 2053 | 2054 | 2055 | 2056 | 2057 | 2058 | 2059 | 2060 | 2061 | 2062 | 2063 | 2064 | 2065 | 2066 | 2067 | 2068 | 2069 | 2070 | 2071 | 2072 | 2073 | 2074 | 2075 | 2076 | 2077 | 2078 | 2079 | 2080 | 2081 | 2082 | 2083 | 2084 | 2085 | 2086 | 2087 | 2088 | 2089 | 2090 | 2091 | 2092 | 2093 | 2094 | 2095 | 2096 | 2097 | 2098 | 2099 | 2100 | 2101 | 2102 | 2103 | 2104 | 2105 | 2106 | 2107 | 2108 | 2109 | 2110 | 2111 | 2112 | 2113 | 2114 | 2115 | 2116 | 2117 | 2118 | 2119 | 2120 | 2121 | 2122 | 2123 | 2124 | 2125 | 2126 | 2127 | 2128 | 2129 | 2130 | 2131 | 2132 | 2133 | 2134 | 2135 | 2136 | 2137 | 2138 | 2139 | 2140 | 2141 | 2142 | 2143 | 2144 | 2145 | 2146 | 2147 | 2148 | 2149 | 2150 | 2151 | 2152 | 2153 | 2154 | 2155 | 2156 | 2157 | 2158 | 2159 | 2160 | 2161 | 2162 | 2163 | 2164 | 2165 | 2166 | 2167 | 2168 | 2169 | 2170 | 2171 | 2172 | 2173 | 2174 | 2175 | 2176 | 2177 | 2178 | 2179 | 2180 | 2181 | 2182 | 2183 | 2184 | 2185 | 2186 | 2187 | 2188 | 2189 | 2190 | 2191 | 2192 | 2193 | 2194 | 2195 | 2196 | 2197 | 2198 | 2199 | 2200 | 2201 | 2202 | 2203 | 2204 | 2205 | 2206 | 2207 | 2208 | 2209 | 2210 | 2211 | 2212 | 2213 | 2214 | 2215 | 2216 | 2217 | 2218 | 2219 | 2220 | 2221 | 2222 | 2223 | 2224 | 2225 | 2226 | 2227 | 2228 | 2229 | 2230 | 2231 | 2232 | 2233 | 2234 | 2235 | 2236 | 2237 | 2238 | 2239 | 2240 | 2241 | 2242 | 2243 | 2244 | 2245 | 2246 | 2247 | 2248 | 2249 | 2250 | 2251 | 2252 | 2253 | 2254 | 2255 | 2256 | 2257 | 2258 | 2259 | 2260 | 2261 | 2262 | 2263 | 2264 | 2265 | 2266 | 2267 | 2268 | 2269 | 2270 | 2271 | 2272 | 2273 | 2274 | 2275 | 2276 | 2277 | 2278 | 2279 | 2280 | 2281 | 2282 | 2283 | 2284 | 2285 | 2286 | 2287 | 2288 | 2289 | 2290 | 2291 | 2292 | 2293 | 2294 | 2295 | 2296 | 2297 | 2298 | 2299 | 2300 | 2301 | 2302 | 2303 | 2304 | 2305 | 2306 | 2307 | 2308 | 2309 | 2310 | 2311 | 2312 | 2313 | 2314 | 2315 | 2316 | 2317 | 2318 | 2319 | 2320 | 2321 | 2322 | 2323 | 2324 | 2325 | 2326 | 2327 | 2328 | 2329 | 2330 | 2331 | 2332 | 2333 | 2334 | 2335 | 2336 | 2337 | 2338 | 2339 | 2340 | 2341 | 2342 | 2343 | 2344 | 2345 | 2346 | 2347 | 2348 | 2349 | 2350 | 2351 | 2352 | 2353 | 2354 | 2355 | 2356 | 2357 | 2358 | 2359 | 2360 | 2361 | 2362 | 2363 | 2364 | 2365 | 2366 | 2367 | 2368 | 2369 | 2370 | 2371 | 2372 | 2373 | 2374 | 2375 | 2376 | 2377 | 2378 | 2379 | 2380 | 2381 | 2382 | 2383 | 2384 | 2385 | 2386 | 2387 | 2388 | 2389 | 2390 | 2391 | 2392 | 2393 | 2394 | 2395 | 2396 | 2397 | 2398 | 2399 | 2400 | 2401 | 2402 | 2403 | 2404 | 2405 | 2406 | 2407 | 2408 | 2409 | 2410 | 2411 | 2412 | 2413 | 2414 | 2415 | 2416 | 2417 | 2418 | 2419 | 2420 | 2421 | 2422 | 2 |
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|
|--|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|---|

FIGURE 12C

## All Projects

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View Projects By Estimated Start Date [3]

| Sequence | Name                        | Region - Basin               | Country       | Status | Your Role |
|----------|-----------------------------|------------------------------|---------------|--------|-----------|
| 1        | <u>Yr2000 Tensleep Proj</u> | Rockies - Big Horn           | United States | NEW    | OWNER     |
| 2        | <u>South Pass 68</u>        | GOM - Gulf Coast Salt Dome   | United States | NEW    | OWNER     |
| 3        | <u>DWT 700</u>              | GOM - Rio Grande Embayment   | United States | NEW    | OWNER     |
| 4        | <u>Name your project</u>    | GOM - Gulf Coast Salt Dome   | United States | NEW    | OWNER     |
| 5        | <u>test</u>                 | GOM - Rio Grande Embayment   | United States | NEW    | OWNER     |
| 6        | <u>fred</u>                 |                              |               | NEW    | OWNER     |
| 7        | <u>JTK Project</u>          | Rockies - Denver - Julesburg | United States | NEW    | OWNER     |
| 8        | <u>Name your project</u>    |                              |               | NEW    | OWNER     |
| 9        | <u>John's Project</u>       | Rockies - Big Horn           | United States | NEW    | OWNER     |

Create onshore project

Create offshore project

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1304

FIGURE 13.



### Bid Request Summary

**Please update the Project details and click the Save button.**

|                       |                    |
|-----------------------|--------------------|
| Project Name:         | John's Project     |
| Description:          | Demo of Software   |
| Country:              | United States      |
| Region And Basin:     | Rockies - Big Horn |
| Estimated Start Date: | 9/20/00            |
| Units Of Measure:     | English            |
| Number Of Rigs:       | 1                  |

Save Cancel Delete Reset

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# CONCRETE

FIGURE 4A





|  |                    |
|--|--------------------|
| <b>Project Name</b>                    | John's Project     |
| <b>Project Description</b>             | Demo of Software   |
| <b>Number Of Development Wells</b>     | 0                  |
| <b>Number Of Exploratory Wells</b>     | 0                  |
| <b>No. Of Rigs Required In Project</b> | 1                  |
| <b>Number Of Project Requests</b>      | 0                  |
| <b>Country</b>                         | United States      |
| <b>Region &amp; Basin</b>              | Rockies - Big Horn |
| <b>Estimated Project Start Date</b>    | 24-SEP-00          |
| <b>Units Of Measure</b>                | English            |

[Edit/Update Project Profile](#)
[Add Well to Project](#)
[View Project Users](#)
[View Wells For Project](#)

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1404

1406

1408

1410

FIGURE 14B



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[Wells](#)

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|                     |                                       |
|---------------------|---------------------------------------|
| Well Name           | <input type="text" value="New Well"/> |
| Well Description    | <input type="text"/>                  |
| Est Spud/Start Date | <input type="text"/>                  |
| Well API Number     | <input type="text"/>                  |
| Well Type           | <input type="text" value="Existing"/> |
| Region/Basin        | <input type="text"/>                  |
| State/Province      | <input type="text"/>                  |
| County              | <input type="text"/>                  |
| Field Name          | <input type="text"/>                  |

|          |                      |
|----------|----------------------|
| Block    | <input type="text"/> |
| Survey   | <input type="text"/> |
| Abstract | <input type="text"/> |

|                       | ft                               | ft                               | Sec                  | Township                       | Range                          | Elevation, ft        |
|-----------------------|----------------------------------|----------------------------------|----------------------|--------------------------------|--------------------------------|----------------------|
| Surface Hole Location | <input type="text" value="FNL"/> | <input type="text" value="FEL"/> | <input type="text"/> | <input type="text" value="N"/> | <input type="text" value="E"/> | <input type="text"/> |

|                        |                                |
|------------------------|--------------------------------|
| Well Location, miles   | <input type="text" value="N"/> |
| Of (Nearest Town/City) | <input type="text"/>           |

e

FIGURE 14C





**Please update the Hole Section details and click the Save button.**

Name: Conductor

**Description:** test

Hole Diameter, in.: 10

Casing Diameter, in.: 15

Top MD, ft.: 100

Bottom MD, ft.: 1000

Top TVD, ft.: 50

Bottom TVD, ft.: 5000

Save Cancel Reset

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**Patent Pending**

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[illegible]

FIGURE 14E



### Bid Request Summary

### All Projects List

#### Profile

#### Projects

#### Project Request

#### Wells

#### Details

#### Hole Sections

#### Find a Consultant

#### Give us Feedback

#### Logout

## All Projects List > John's Project > New Well2 > Well Summary

|           |                                       |                                       |                                  |   |                       |  |
|-----------|---------------------------------------|---------------------------------------|----------------------------------|---|-----------------------|--|
| Well Type | <input type="text" value="Existing"/> | <input type="text" value="Injector"/> | <input type="text" value="Gas"/> | <input type="text" value="Build &amp; Hold"/> | Current Well Spacing? | <input type="text" value="360 acres"/> |
|-----------|---------------------------------------|---------------------------------------|----------------------------------|---|-----------------------|--|

|             |  |
|-------------|--|
| Well Status | <input type="text" value="Injecting"/> |
|-------------|--|

### Current Production/Injection Data

| Date of Last Production | Oil Rate, BOPD       | Gas Rate, MCFD       | Water Rate, BWPD     | Oil API Gravity      | Gas, SG              |
|-------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/>    | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

### Initial Production/Injection Data

| Date of Initial Prod/Inj. | Oil Rate, BOPD       | Gas Rate, MCFD       | Water Rate, BWPD     | Oil API Gravity      | Gas, SG              |
|---------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/>      | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

### Wellbore Mechanics

| Casing/Tubing Size OD, in | Weight, lb <sub>m</sub> /ft | Grade                | Threads              | Top MD, ft           | Bottom MD, ft        | Top TVD, ft          | Bottom TVD, ft       |
|---------------------------|-----------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/>      | <input type="text"/>        | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/>      | <input type="text"/>        | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/>      | <input type="text"/>        | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Add a Line (if needed)

|                    |                                 |                |                                |
|--------------------|---------------------------------|----------------|--------------------------------|
| Packer(s) in Well? | <input type="text" value="No"/> | No. of Packers | <input type="text" value="0"/> |
|--------------------|---------------------------------|----------------|--------------------------------|

| Packer Type          | Packer Depth MD, ft  | Packer Depth TVD, ft |
|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |
| <input type="text"/> | <input type="text"/> | <input type="text"/> |

### Perforation Intervals in Well

| Top MD, ft           | Bottom MD, ft        | Top TVD, ft          | Bottom TVD, ft       | SPF                  | Date Perforated      | Ref Log              | Ref Log Date         |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

FIGURE KF

1424



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Hole Sections

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[All Projects List](#) > [Yr2000 Tensleep Proj](#) > [DS5-15](#) > [Onshore Geological Prognosis](#)

|                |                    |
|----------------|--------------------|
| Well Name      | DS5-15             |
| Region/Basin   | Rockies - Big Horn |
| State/Province | Wyoming            |
| County         | Gillet             |
| Field Name     | Hamilton Dome      |

|                            |              |
|----------------------------|--------------|
| Reference Datum (RD)       | RKB          |
| RD above GL or Mudline, ft | 54           |
| Ground Level (GL), ft      | 35 SS 54 TVD |
| Mudline, ft                | SS TVD       |

|          |  |
|----------|--|
| Block    |  |
| Survey   |  |
| Abstract |  |

|                             | ft       | ft       | Sec | Township | Range | @SS, ft | @TVD, ft |
|-----------------------------|----------|----------|-----|----------|-------|---------|----------|
| Surface Hole Location       | 3855 FSL | 107 FEL  | 8   | 9 N      | 20 E  | 35      | 54       |
| Geological Target           | 187 FNL  | 1067 FEL | 5   | 9 N      | 20 E  | 9770    |          |
| Beginning of Horizontal Sec | FNL      | FEL      |     | N        | E     |         |          |
| End of Horizontal Sec       | FNL      | FEL      |     | N        | E     |         |          |
| Bottom Hole Location        | 0 FNL    | 1284 FEL | 5   | 9 N      | 20 E  | 10645   |          |

FIGURE 14G



Go

**Logout**

|               |                          |
|---------------|--------------------------|
| Request Type: | Current Contract Pricing |
| Reply By:     |                          |

|                  |   |                  |   |
|------------------|---|------------------|---|
| Requested By:    | Robert T de Jong                              | Office Phone:    | (703) 300520-250  |
| Title:           |   | Fax:             | unknown   |
| Company Name:    | company#1                                     | E-Mail:          | dejong@wellbld.com  |
| Mailing Address: | 4155 E Jewell Av Suite 300<br>Denver CO 80222 | Region & Basins: | Canada - Alberta<br>Canada - British Columbia<br>Canada - Eastern Canadian Offshore<br>Canada - Far North<br>Canada - Saskatchewan<br>GOM - Apalachicola<br>GOM - Gulf Coast Salt Dome<br>GOM - Rio Grande Embayment<br>Gulf States - Black Warrior<br>Gulf States - Central Texas<br>Gulf States - East Texas<br>Gulf States - North Louisiana<br>Gulf States - Permian<br>Gulf States - South Louisiana<br>Gulf States - South Texas<br>Mid-Con - Anadarko<br>Mid-Con - Ardmore<br>Mid-Con - Arkoma<br>Mid-Con - Delhart<br>Mid-Con - Hugoton<br>Mid-Con - Kansas/Nebraska<br>Northeastern - Appalachia<br>Northeastern - Illinois<br>Northeastern - Michigan<br>Pacific - Cook Inlet<br>Pacific - Sacramento<br>Pacific - North Slope<br>Pacific - San Joaquin<br>Rockies - Big Horn |

|                            |                       |
|----------------------------|-----------------------|
| <b>Project Name:</b>       | PL Project            |
| <b>Region &amp; Basin:</b> | Rockies - Green River |
| <b>Country:</b>            | USA                   |

|                                |   |
|--------------------------------|---|
| <b>Well Name:</b>              | Federal State 5-10-1                              |
| <b>Well Description:</b>       | Drill and Complete a Dakota Producer              |
| <b>Est Spud/Start Date:</b>    | 01-NOV-2000                                       |
| <b>Well API Number:</b>        | 51-23-23598-60                                    |
| <b>Well Type:</b>              | NEW   |
| <b>Region &amp; Basin:</b>     | Rockies - Big Horn                                |
| <b>Country:</b>                | United States                                     |
| <b>State/Province:</b>         | Wyoming   |
| <b>County:</b>                 | Evanston, Wyoming                                 |
| <b>Field:</b>                  | Federal State Field                               |
| <b>Block:</b>                  |   |
| <b>Survey:</b>                 |   |
| <b>Abstract:</b>               |   |
| <b>Surface Location:</b>       | @ 3855' FNL, 107' FEL, Sec 8, T9, R20, 8500ft, UM |
| <b>Well Location Is:</b>       | 56 miles N  |
| <b>Of (Nearest Town/City):</b> | Evanston  |

**Comments:** If you have ideas on how we can do away with a 2 Stage Job, I will be willing to entertain them.

FIGURE 15A

Comments: If you have ideas on how we can do away with a 2 Stage Job, I will be willing to entertain them.

| Hole Section   | Hole Diameter, in | Casing Size, in | Weight, lb./ft | Grade  | Threads | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft |
|----------------|-------------------|-----------------|----------------|--------|---------|------------|---------------|---------------|-------------|----------------|
| Conductor      | 24                | 20              | 91.1           | H-40   | Weld    | 37         | 118           | 79            | 37          | 118            |
| Surface        | 12.25             | 9.625           | 40             | L-80   | BTC     | 35         | 5219          | 5184          | 35          | 4554           |
| Intermediate 1 | 8.5               | 7               | 29             | USS-95 | BTC-Mod | 33         | 12183         | 12150         | 33          | 9854           |
| Production     | 6                 | 4.5             | 12.8           | L-80   | BTC-Mod | 12033      | 13294         | 1261          | 9744        | 10729          |

#### Hole Section: Conductor

| Hole Diameter, in | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type | Max MW, ppg |
|-------------------|------------|---------------|---------------|-------------|----------------|----------------|----------|-------------|
| 24                | 37         | 118           | 79            | 37          | 118            | 79             |          |             |

#### Hole Section: Surface

| Hole Diameter, in | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type | Max MW, ppg |
|-------------------|------------|---------------|---------------|-------------|----------------|----------------|----------|-------------|
| 12.25             | 118        | 5219          | 5103          | 118         | 4554           | 4438           | Spud Mud | 9.8         |

#### Geological Data with Hole Section

| H2S in Hole Section             | Concentration, ppm                | Min Depth of H2S MD, ft          |                                   |
|---------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| <input type="checkbox"/>        |                                   |                                  |                                   |
| Penetrate Salt in Hole Section  | Top of Salt Section MD, ft        | Thickness of Salt Section MD, ft | Salt Section Flowing              |
| <input type="checkbox"/>        |                                   |                                  | <input type="checkbox"/>          |
| Gas Migration Problems Expected | Top of Gas Zone MD, ft            | Pressure @ Depth, psi            | Desired Technique                 |
| <input type="checkbox"/>        |                                   |                                  |                                   |
| Min Fric Gradient (1), ppg      | Depth of Fric Gradient (1) MD, ft | Min Fric Gradient (2), ppg       | Depth of Fric Gradient (2) MD, ft |
|                                 |                                   |                                  |                                   |

#### Flashes

Number of Flashes in Stage 1: 1 Number of Surries in Stage 1: 1

| Fluid Name | Name        | Volume, BBL | Density, ppg |
|------------|-------------|-------------|--------------|
| Preflush   | Fresh Water | 300         | 8.3          |

| Center of Gravity        | Tel 1                    | Type                  | Liquid                   |                      |         |
|--------------------------|--------------------------|-----------------------|--------------------------|----------------------|---------|
| Top of Slurry MD, ft     | Bottom of Slurry MD, ft  | Top of Slurry TVD, ft | Bottom of Slurry TVD, ft |                      |         |
| 0                        | 5219                     | 0                     | 4554                     |                      |         |
| OH Excess Required, %    | CH Excess Required, %    | Max Density, ppg      | Desired FL, cc/stroke    | BHST, F              | BHCT, F |
| 25                       | 0                        | 12.4                  | 50                       | 110                  |         |
| 12-Hr Comp Strength, psi | 24-Hr Comp Strength, psi | Ult Strength, psi     | Est Thickening Time, hr  | Transition Time, min |         |
| 1500                     | 2500                     | 2800                  | 4                        |                      |         |

#### Pumping Requirements for the Stage

| Max Slurry Mixing Rate, bpm | Max Slurry Pumping Rate, bpm | Max Slurry Displacement Rate, bpm |
|-----------------------------|------------------------------|-----------------------------------|
| 25                          | 25                           | 25                                |

FIGURE 15B



|                                |      |              |  |
|--------------------------------|------|--------------|--|
| Batch Mixer                    | ✓    | Size         |  |
| Standby Pumping Equipment      | ✓    | No. of Units |  |
| Computer Monitoring Equipment  | ✓    |              |  |
| Additives in Liquid Form       | ✓    |              |  |
| Special Personnel Requirements | None |              |  |

**Hole Section: Intermediate 1**

| Hole Diameter, in | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type    | Max MW, ppg |
|-------------------|------------|---------------|---------------|-------------|----------------|----------------|-------------|-------------|
| 8.5               | 5219       | 12183         | 6964          | 4554        | 9854           | 5300           | KCL Polymer | 10          |

### Hole Section: Production

| Hole Diameter, in | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type    | Max MW, ppg |
|-------------------|------------|---------------|---------------|-------------|----------------|----------------|-------------|-------------|
| 6                 | 12183      | 13294         | 1111          | 9854        | 10729          | 875            | KCL Polymer | 12.4        |

**Category**

**Attachments:**

There are no attachments.

**File Attachments:**

20000105 Time vs Depth

Curve.xls ( 17.00 kB)

|                                 |                                     |               |  |
|---------------------------------|-------------------------------------|---------------|--|
| Batch Mixer                     | <input checked="" type="checkbox"/> | Size:         |  |
| Standby Pumping Equipment       | <input checked="" type="checkbox"/> | No. of Units: |  |
| Computer Monitoring Equipment   | <input checked="" type="checkbox"/> |               |  |
| Additives in Liquid Form        | <input checked="" type="checkbox"/> |               |  |
| Special Personnel Requirements: | None                                |               |  |

**Hole Section: Intermediate 1**

| Hole Diameter, in. | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft. | Bottom TVD, ft. | Length TVD, ft | Mud Type    | Max MW, ppg |
|--------------------|------------|---------------|---------------|--------------|-----------------|----------------|-------------|-------------|
| 8.5                | 5219       | 12183         | 6964          | 4554         | 9854            | 5300           | KCL Polymer | 10          |

### Hole Section: Production

| Hole Diameter, in | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type    | Max MW, ppg |
|-------------------|------------|---------------|---------------|-------------|----------------|----------------|-------------|-------------|
| 8                 | 12163      | 13294         | 1111          | 9854        | 10729          | 875            | KCL Polymer | 12.4        |

**Category**

**Attachments:**

There are no attachments.

**File Attachments:**

20000105 Time vs Depth

Curve.xls (17.00 kb)

المجلس الأعلى للدراسات والبحوث

FIGURE 15c

| Hole Section: Intermediate 1 |            |               |               |             |                |                |             |             |
|------------------------------|------------|---------------|---------------|-------------|----------------|----------------|-------------|-------------|
| Hole Diameter, in            | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type    | Max MW, ppg |
| 8.5                          | 5219       | 12183         | 6964          | 4554        | 9854           | 5300           | KCL Polymer | 10          |

| Hole Section: Production |            |               |               |             |                |                |             |             |
|--------------------------|------------|---------------|---------------|-------------|----------------|----------------|-------------|-------------|
| Hole Diameter, in        | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type    | Max MW, ppg |
| 6                        | 12183      | 13294         | 1111          | 9854        | 10729          | 875            | KCL Polymer | 12.4        |

Category Attachments: There are no attachments.

File Attachments: 20000105 Time vs Depth Curve.xls ( 17.00 kB)

Interested Not Interested Submit Bid/Proposal

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FIGURE 15D



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(Request #4328) - Primary Cementing  
BID PRICING

|                        |                          |
|------------------------|--------------------------|
| Currency Type          | US Dollars               |
| Mobilization           | 0                        |
| Setup                  | 0                        |
| Third Party Cost, Etc. | 0                        |
| Services As Requested  | 0                        |
| Total                  | 0                        |
| Offer Good Until       | (e.g. 01-JUL-2000)       |
| Terms                  |                          |
| Request For            | Current Contract Pricing |

|                      |
|----------------------|
| Comments             |
| <input type="text"/> |

In order to view detailed bid pricing, please save this page first.

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FIGURE 15E



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(Request #4328) - Primary Cementing  
BID PRICING

|                            |                                |
|----------------------------|--------------------------------|
| Currency Type              | US Dollars                     |
| Mobilization, \$           | 5000                           |
| Setup, \$                  | 2000                           |
| Third Party Cost, Etc., \$ | 2000                           |
| Services As Requested, \$  | 35000                          |
| Total, \$                  | 44000                          |
| Offer Good Until           | 01-OCT-2000 (e.g. 01-JUL-2000) |
| Terms                      | 30 days net                    |
| Request For                | Current Contract Pricing       |

|          |
|----------|
| Comments |
| None     |

[View Detailed Bid Pricing](#)

|   |
|---|
| Attachments   |
| Attach a file: <input type="text"/> <input type="button" value="Browse"/> <input type="button" value="Add Attachment"/> |

FIGURE 15F

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## Primary Cementing -- Commercial Response

### Hole Section: Surface

| Hole Diameter, in | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft | Length TVD, ft | Mud Type | Max MW, ppg |
|-------------------|------------|---------------|---------------|-------------|----------------|----------------|----------|-------------|
| 12.25             | 118        | 5219          | 5103          | 118         | 4554           | 4438           | Spud Mud | 9.8         |

### Relevant Casing Program

| Hole Section | Hole Diameter, in | Casing Size, in | Weight, lb/ft | Grade | Threads | Top MD, ft | Bottom MD, ft | Length MD, ft | Top TVD, ft | Bottom TVD, ft |
|--------------|-------------------|-----------------|---------------|-------|---------|------------|---------------|---------------|-------------|----------------|
| Conductor    | 24                | 20              | 91.1          | H-40  | Weld    | 37         | 118           | 79            | 37          | 118            |
| Surface      | 12.25             | 9.625           | 40            | L-80  | BTC     | 35         | 5219          | 5184          | 35          | 4554           |

### Geological Issues within Hole Section

| H2S in Hole Section             | Concentration, ppm                | Min Depth of H2S MD, ft          |                                   |
|---------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| <input type="checkbox"/>        |                                   |                                  |                                   |
| Penetrate Salt in Hole Section  | Top of Salt Section MD, ft        | Thickness of Salt Section MD, ft | Salt Section Flowing              |
| <input type="checkbox"/>        |                                   |                                  | <input type="checkbox"/>          |
| Gas Migration Problems Expected | Top of Gas Zone MD, ft            | Pressure @ Depth, psi            | Desired Technique                 |
| <input type="checkbox"/>        |                                   |                                  |                                   |
| Min Free Gradient (1), ppg      | Depth of Free Gradient (1) MD, ft | Min Free Gradient (2), ppg       | Depth of Free Gradient (2) MD, ft |
|                                 |                                   |                                  |                                   |

### 12/15/00

| Fluid Name | Name        | Volume, BBL | Density, ppg |
|------------|-------------|-------------|--------------|
| Preflush   | Fresh Water | 300         | 8.3          |

### Fluid Comments

### Cement Slurry Model

| Tail 1                  | Type                    | Liquid                   |
|-------------------------|-------------------------|--------------------------|
| Recipe Description      |                         |                          |
| Top of Slurry MD, ft    | Bottom of Slurry MD, ft | Volume, BBL              |
| 0                       | 5219                    | <input type="checkbox"/> |
| Max Density, ppg        | Desired FL, cc/30mins   | Transition Time, min     |
| 12.4                    | 50                      |                          |
| Est Thickening Time, hr | BNST, F                 | BNCT, F                  |
| 4                       | 110                     |                          |

### Slurry Comments

FIGURE 15G

|                                    |     |
|------------------------------------|-----|
| Total Fish Splice Cost (F)         |     |
| Total Fish Splice Volume (FV)      | 300 |
| Total Fish Splice Unit Cost (FUC)  |     |
|                                    |     |
| Total Splice Cost (C)              |     |
| Total Splice Volume (CV)           | 0   |
| Total Splice Unit Cost (CUC)       |     |
|                                    |     |
| Running Air Charge Splice Cost (R) |     |
| Total Splice Cost (C)              |     |
| Total Air Charge Cost (A)          |     |
| Transportation Cost (T)            |     |
| Handling Cost (H)                  |     |
| Other (O)                          |     |
|                                    |     |
| Estimated Unit Price               |     |
| Splice Volume (FV)                 |     |
|                                    |     |
| Running Air Charge Splice Cost (R) |     |
| Total Splice Cost (C)              |     |
| Total Air Charge Cost (A)          |     |
| Transportation Cost (T)            |     |
| Handling Cost (H)                  |     |
| Other (O)                          |     |
|                                    |     |
| Running Air Charge                 |     |
| Splice Volume (FV)                 |     |
|                                    |     |
| Total Air Charge Cost (A)          |     |
| Total Splice Cost (C)              | 0   |
| Total Unit Cost (CUC)              |     |

Save Draft | Save Final | Reset

### Go To Basic Bid Pricing

FIGURE 15H

✓



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## Request Manager

### Cover Info:

|                  |  |
|------------------|--|
| Status           | SUBMITTED  |
| Bid Request      | Primary Cementing  |
| Request for      | Current Contract Pricing   |
| Due Date         |  |
| Comments         | If you have ideas on how we can do away with a 2 Stage Job, I will be willing to entertain them. |
| File Attachments | 20000105 Time vs Depth Curve.xls ( 17.00 kB)   |

[Edit Cover Info](#)

### List of Details:

|           |                   |
|-----------|-------------------|
| Detail No | Primary Cementing |
| Surface   | Final             |

[View Pkg](#)

### Request Status:

| Vendor                  | Interested        | Feedback | Response          | eField-Tickets™ |
|-------------------------|-------------------|----------|-------------------|-----------------|
| Robert de Jong (vender) | Pricing Submitted | No       | 21-SEP-2000 13:19 |                 |

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FIGURE 16A



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Federal State 5-10-1

Go

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Hole Sections

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## (Request #4329) - Primary Cementing From Robert de Jong (vender) BID PRICING

|                           |                          |
|---------------------------|--------------------------|
| Currency Type             | US Dollars               |
| Mobilization \$           | 5000                     |
| Setup \$                  | 2000                     |
| Third Party Cost, Etc. \$ | 2000                     |
| Services As Requested \$  | 35000                    |
| Total \$                  | 44000                    |
| Offer Good Until          | 01-OCT-2000              |
| Terms                     | 30 days net              |
| Request For               | Current Contract Pricing |

Comments:  
None

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Attachments

No Files Attached

1602

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FIGURE 16B



All Projects List > Yr2000 Tensleep Proj > All Wells By Spud/Start Date  
Calendar

Project Name: Yr2000 Tensleep Proj

[View Project-Level Bld Requests Calendar](#)

August 2000

| Sunday | Monday | Tuesday                   | Wednesday | Thursday | Friday | Saturday |
|--------|--------|---------------------------|-----------|----------|--------|----------|
|        |        | 01<br>> DSS-15<br>> QSS-1 | 02        | 03       | 04     | 05       |
| 06     | 07     | 08                        | 09        | 10       | 11     | 12       |
| 13     | 14     | 15<br>> SI 384 #1-1       | 16        | 17       | 18     | 19       |
| 20     | 21     | 22                        | 23        | 24       | 25     | 26       |
| 27     | 28     | 29                        | 30        | 31       |        |          |

September 2000

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday         | Saturday |
|--------|--------|---------|-----------|----------|----------------|----------|
|        |        |         |           |          | 01<br>> DSS-16 | 02       |
| 03     | 04     | 05      | 06        | 07       | 08             | 09       |
| 10     | 11     | 12      | 13        | 14       | 15             | 16       |
| 17     | 18     | 19      | 20        | 21       | 22             | 23       |
| 24     | 25     | 26      | 27        | 28       | 29             | 30       |

October 2000

| Sunday                       | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
|------------------------------|--------|---------|-----------|----------|--------|----------|
| 01<br>> DSS-17<br>> DSS-17-1 | 02     | 03      | 04        | 05       | 06     | 07       |
| 08                           | 09     | 10      | 11        | 12       | 13     | 14       |
| 15                           | 16     | 17      | 18        | 19       | 20     | 21       |

FIGURE 17 A



[All Projects List](#) > [Yr2000 Tensleep Proj](#) > [All Bid Requests By Due Date - Calendar](#)

[Bid Request Summary](#)

Project Name: Yr2000 Tensleep Proj

[All Projects List](#)

[View This Project's Wells By Start Date](#) [58](#)

July 2000

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Projects  
Yr2000 Tensleep Proj

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| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday                              |
|--------|--------|---------|-----------|----------|--------|---------------------------------------|
|        |        |         |           |          |        | 01                                    |
| 02     | 03     | 04      | 05        | 06       | 07     | 08                                    |
| 09     | 10     | 11      | 12        | 13       | 14     | 15<br>Casino(1 submitted,1 responded) |
| 16     | 17     | 18      | 19        | 20       | 21     | 22                                    |
| 23     | 24     | 25      | 26        | 27       | 28     | 29                                    |
| 30     | 31     |         |           |          |        |                                       |

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FIGURE 17B



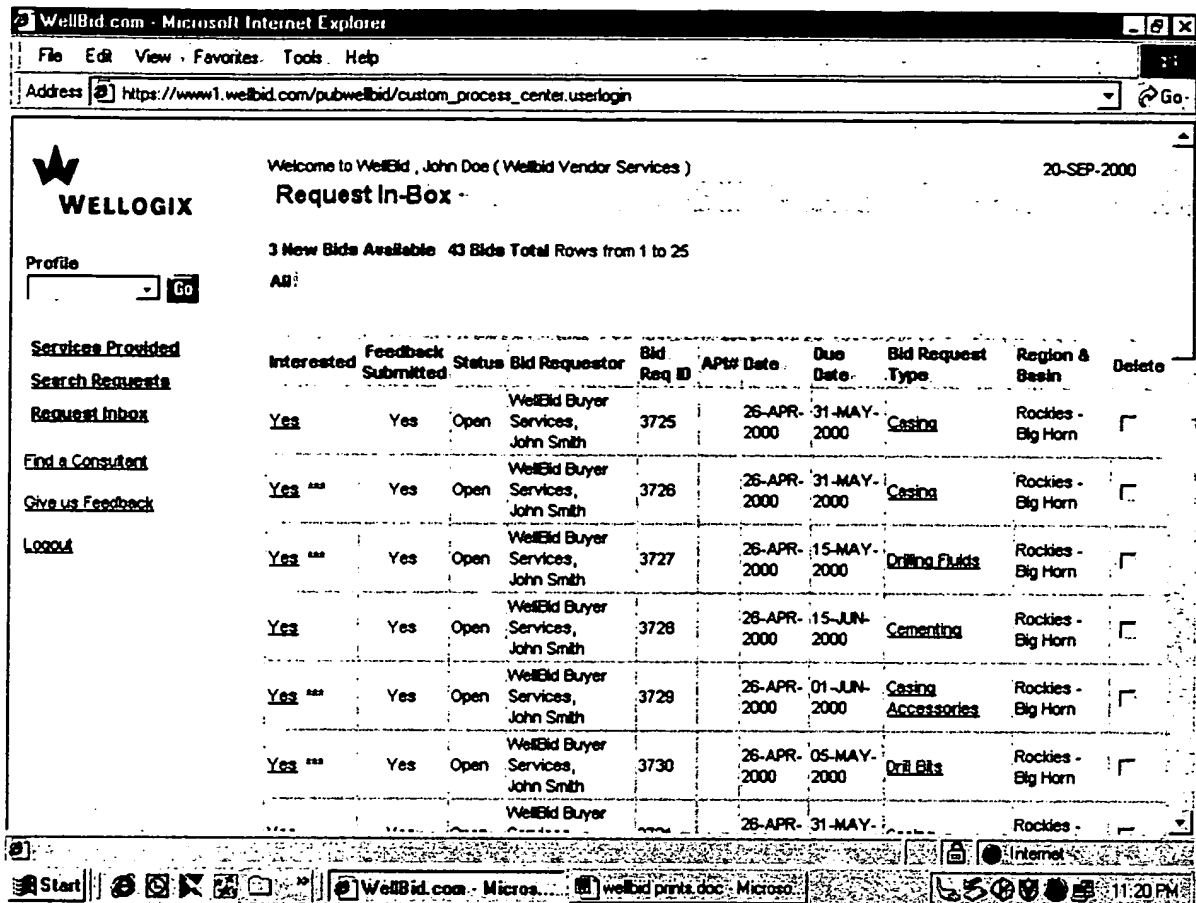


FIGURE 18